ne of Work :Revised Estimate for Maintenance and Repairs of Borewell in Bagalagunte

Ward No 14

Item code	Description Of item of work	Nos		Measurements Length	Breath	Depth	014-22-000008 Quantity	Units	Rate	Amount
	2	3	4	5	6	7	8	9	10	11
1	12.33 (D) Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment, transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(D) P NO 133									
Rewinding of motor of		14	1				14.00			
						Total Qty	14.00	Job	5102.83	71,440.00
	Basic Rate	4760.0								
	A.W 3%	142.8								
TOTAL RATE		4902.8								
2	12.33 (E) Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment,transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(E)P NO 133									
Rewinding of motor of		6	1				6.00			
						Total Qty	6.00	Job	5703.17	34,219.00
	Basic Rate	5320.0								
	A.W 3%	159.6								
TOTAL RATE		5479.6								
3	12.33 (F) Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment, transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(F)P NO 133									
Rewinding of motor of		8	1				8.00			
						Total Qty	8.00	Job	6453.58	51,629.00
	Basic Rate	6020.0								
	A.W 3%	180.6								
TOTAL RATE		6200.6								
4	12.33.1(A) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(A) P NO 134)									
(a)Pump bowls		5	30				150.00			
						Total Qty	150.00	Each	870.48	1,30,572.00
	Basic Rate	812.0								
	A.W 3%	24.36								
TOTAL RATE		836.4								
5	12.33.1(B) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(B) P NO 134)									
(B)Intermidiate piece(I.P)		5	1				5.00			
						Total Qty	5.00	Each	780.43	3,902.00
	Basic Rate	728.0								
	A.W 3%	21.84								
TOTAL RATE		749.8								

	12.33.1(C)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(C) P NO 134)								
	(C)Oil seal		5	30			150.00			
					Total Qty		150.00	Each	183.32	27,498.00
		Basic Rate	171.0							
		A.W 3%	5.13							
	TOTAL RATE		176.1							
7	12.33.1(D)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(D) P NO 134)								
	(D)Oil seal steel bush		5	30			150.00			
					Total Qty		150.00	Each	183.32	27,498.00
		Basic Rate	171.0							
		A.W 3%	5.13							
	TOTAL RATE		176.1							
8	12.33.1(E)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(E) P NO 134)								
	(D)Guide vane		5	2			10.00			
					Total Qty		10.00	Each	482.41	4,824.10
		Basic Rate	450.0							
		A.W 3%	13.5							
	TOTAL RATE		463.5							
9	12.33.1 (F)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(F) P NO 134)								
	(D)Impeller shell		5	30			150.00			
					Total Qty		150.00	Each	731.12	1,09,668.00
		Basic Rate	682.0							
		A.W 3%	20.46							
	TOTAL RATE		702.5							
10	12.33.1 (G)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(G) P NO 134)								
	(G)Dishcharge		5	2			10.00			
					Total Qty		10.00	Each	686.10	6,861.00
		Basic Rate	640.0							
		A.W 3%	19.2							
	TOTAL RATE		659.2							
11	12.33.1 (H)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(H) P NO 134)								
	(H)D.O Bearing		5	2			10.00			
					Total Qty		10.00	Each	686.10	6,861.00
		Basic Rate	640.0							
		A.W 3%	19.2							
	TOTAL RATE		659.2							
12	12.33.1 (I)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(I) P NO 134)								
	(I)Steel bush (D.O steel		5	2			10.00			
					Total Qty		10.00	Each	228.34	2,283.00
		Basic Rate	213.0							
		A.W 3%	6.39							
	TOTAL RATE		219.4							

	12.33.1 (J)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(J) P NO 134)							
	(J)Allen screw	5	2		Total Qty	10.00			
						10.00	**Each**	**1103.11**	**11,031.00**
	Basic Rate	1029.0							
	A.W 3%	30.87							
	TOTAL RATE	1059.9							
14	12.33.1 (K)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(K) P NO 134)							
	(J)Pump shaft (Stainless	5	1		Total Qty	5.00			
						5.00	**Each**	**1103.11**	**5,516.00**
	Basic Rate	1029.0							
	A.W 3%	30.87							
	TOTAL RATE	1059.9							
15	12.33.1 (L)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(L) P NO 134)							
	(L)Pump key (Stainless	5	30		Total Qty	150.00			
						150.00	**Each**	**329.11**	**49,367.00**
	Basic Rate	307.0							
	A.W 3%	9.21							
	TOTAL RATE	316.2							
16	12.33.1 (M)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(M) P NO 134)							
	(M)Pump coupling	5	1		Total Qty	5.00			
						5.00	**Each**	**1775.27**	**8,876.00**
	Basic Rate	1656.0							
	A.W 3%	49.68							
	TOTAL RATE	1705.7							
17	12.33.1 (N)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(N) P NO 134)							
	(N) Non return (NRV)	5	2		Total Qty	10.00			
						10.00	**Each**	**337.69**	**3,377.00**
	Basic Rate	315.0							
	A.W 3%	9.45							
	TOTAL RATE	324.5							
18	12.33.1 (0)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(0) P NO 134)							
	(0) Cable guard	5	2		Total Qty	10.00			
						10.00	**Each**	**337.69**	**3,377.00**
	Basic Rate	315.0							
	A.W 3%	9.45							
	TOTAL RATE	324.5							
19	12.33.1 (P)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(P) P NO 134)							
	(P) Stainer	5	1		Total Qty	5.00			
						5.00	**Each**	**309.81**	**1,549.00**
	Basic Rate	289.0							
	A.W 3%	8.67							
	TOTAL RATE	297.7							

	12.33.1 (Q)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(Q) P NO 134)							
	(Q)Brass Filter		5	1			5.00		
						Total Qty	5.00	Each	681.81	3,409.00
		Basic Rate	636.0						
		A.W 3%	19.08						
		TOTAL RATE	655.1						
21	12.33.1 (R)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(R) P NO 134)							
	(R)Labour Charges		5	1			5.00		
						Total Qty	5.00	Each	525.29	2,626.00
		Basic Rate	490.0						
		A.W 3%	14.7						
		TOTAL RATE	504.7						
22	12.33.3 (D)	Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(D) P NO 135)							
	(D)Upper Flange		5	2			10.00		
						Total Qty	10.00	Each	428.81	4,288.10
		Basic Rate	400.0						
		A.W 3%	12						
		TOTAL RATE	412.0						
23	12.33.3 (E)	Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(E) P NO 135)							
	(E)Lower flange		5	2			10.00		
						Total Qty	10.00	Each	428.81	4,288.10
		Basic Rate	400.00						
		A.W 3%	12						
		TOTAL RATE	412.0						
24	12.33.3 (H)	Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(H) P NO 135)							
	(H)Lock ring		5	2			10.00		
						Total Qty	10.00	Each	165.09	1,651.00
		Basic Rate	154.00						
		A.W 3%	4.62						
		TOTAL RATE	158.6						
25	12.34 (A)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(A) P NO 135)							
	(A)Carbon housing		5	2			10.00		
						Total Qty	10.00	Each	1218.89	12,189.00
		Basic Rate	1137.00						
		A.W 3%	34.11						
		TOTAL RATE	1171.1						
26	12.34 (B)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(B) P NO 135)							
	(B)Thrust Bearing block		5	1			5.00		
						Total Qty	5.00	Each	1415.07	7,075.35
		Basic Rate	1320.00						
		A.W 3%	39.6						
		TOTAL RATE	1359.6						

	34 (C)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(C) P NO 135)								
	C)Tip Carbon/Ferrode		5	2			10.00			
						Total Qty	10.00	Each	115.78	1,158.00
		Basic Rate	108.00							
		A.W 3%	3.24							
	TOTAL RATE		111.2							
28	12.34 (D)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(D) P NO 135)								
	(D)Studs and Nuts		5	8			40.00			
						Total Qty	40.00	Each	93.27	3,731.00
		Basic Rate	87.00							
		A.W 3%	2.61							
	TOTAL RATE		89.6							
29	12.34 (E)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(E) P NO 135)								
	(E)Bearing (Gun metal)		5	4			20.00			
						Total Qty	20.00	Each	501.71	10,034.00
		Basic Rate	468.00							
		A.W 3%	14.04							
	TOTAL RATE		482.0							
30	12.34 (F)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(F) P NO 135)								
	(F)Criclips		5	2			10.00			
						Total Qty	10.00	Each	64.32	643.20
		Basic Rate	60.00							
		A.W 3%	1.8							
	TOTAL RATE		61.8							
31	12.34 (G)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(G) P NO 135)								
	(G)Motor Base with pin		5	1			5.00			
						Total Qty	5.00	Each	592.83	2,964.00
		Basic Rate	553.00							
		A.W 3%	16.59							
	TOTAL RATE		569.6							
32	12.34 (H)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(H) P NO 135)								
	(H)Transportation of		5	1			5.00			
						Total Qty	5.00	Each	592.83	2,964.00
		Basic Rate	553.00							
		A.W 3%	16.59							
	TOTAL RATE		569.6							
33	12.34 (i)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(i) P NO 135)								
	(i)Transportation of		5	1			5.00			
						Total Qty	5.00	Each	1163.15	5,816.00
		Basic Rate	1085.00							
		A.W 3%	32.55							
	TOTAL RATE		1117.6							

12.34 (i)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(i) P NO 135)									
(i)Re-errection charges		5	1				5.00			
						Total Qty	5.00	Each	1834.23	9,171.00
	Basic Rate	1711.00								
	A.W 3%	51.33								
TOTAL RATE		1762.3								
35	2.6.4	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 6.0Sq.mm (ELECTRICAL SR 2019-20 P-07/I. NO 2.6.4)								
		3	1	600.00			1,800.00			
		1	1	590.00	520.00		590.00			
						Total Qty	2320.00	Rmtr	213.36	4,94,995.20
	Basic Rate	205.00								
	A.W 0%	0								
TOTAL RATE		205.0								
36	2.6.4	Supplying and delivery at site brand new star/Essen/Lotus/Sun-Shines/Adarsh/ G.K.Controls Best Indigenous make combined energy meter-cum-**control panel board** unit minimum mechanically strong suitable for operation on 3HP 50HZ 380/440 Volts AC supply with spring loaded latch locking Device with a key Ribbs should be provided. contron panal board unit suitable for operation on 3HP 50HZ 380/440 Volts AC shall be consists Etc. complete the panal board shall be fabricated in single unit in the above components panal board suitable pump set 10HP to 20HP with stae delta starter out door panel board up to 20HP (SR PWD 2018-19 P. No. XLVII/13)								
		4	1				4.00			
						Total Qty	4.00	No	22512.50	90,050.00
	Basic Rate	21000.00								
	A.W 3%	630								
TOTAL RATE		21630.0								
37	39	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm (P.No.530, I.No.39, BWSSB SR 2013-14)								
				10.00	21600.00		Sqm	216000.00	0.36	77760.00
	Basic Rate	0.33								
	A.W. 6%	0.020								
	Total	0.35								
38	SL No-44	Supplying and delivery of Submersible Pump Sets of 150mm dia suitable for bore well and confirming to IS 8034 specifications and its latest ammendments, 3-Phase, SS Bowl and impeller with low volt motor with testing as per instructions of Engineer incharge of work.15HP/11KV 35 STAGE (SR KPWD SR 2019-20, Page No-XLII , SL No-44)								
		2	1				2.00			
						Total Qty	2.00	No	72601.75	1,45,204.00
	Basic Rate	67724.00								
	A.W 3%	2031.72								
TOTAL RATE		69755.7								

12.16	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.(SR RDWS&S 2019-20, Pg No.130 I No. 12.16)								
		42	1				42.00		
					Total Qty		42.00	No	6056.94	2,54,391.48
	Basic Rate	5650.00								
	A.W 3%	169.5								
	TOTAL RATE	5819.5								
								Total amount		1694756.53
								ADD 18% GST		305056.00
								MISC AND ROUNDOFF		187.47
								TOTAL AMOUNT IN RS		2000000.00

Assistant Engineer
AE-14

"Counter signed"

Executive Engineer

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division Bangalore-57

Assistant Executive Engineer
T Dasarahalli Sub- Division
B.B.M.P

Technically Sanctione for Rs. 16.94 lakhs/-
Rs. In words Rs. Sixteen lakhs ninety four thousand seven Hundred & sixty Only/-
Under SR. P-1802 014
Job Code No. [redacted]-22-000008
Registered as CE No. 24/2022-23 Subject to conditions contained in Enclosed Memo No. CE/22/75/24/2022-23 Dt. 17/01/2023.
AE/JE
CE(D)